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20 November 1967

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## MEMORANDUM FOR THE RECORD

SUBJECT : Review of IDEALIST Sensor Systems and Characteristics of Optical Bar Panoramic Camera

1. On 17 November a review of IDEALIST Sensor Systems was presented to OSA staff elements. In attendance were:

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2. Current inventory of sensors follows:

<u>Sensor</u>	<u>On Hand</u>	<u>Comments</u>
B-2 (Lightweight)	4	Det. G and H
B (Standard)	6	Stored
Tracker (T-35)	14	U-2R nose installation
Delta III	4	1 at OL-20
H	3	1 SAC 1 PLANT
	2	Det. G
	1	Development
Drift Sight MK II	8	Need 4 more
Drift Sight (DANS)	2	Development

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Materiel will procure four more MK II drift sights for U-2R. Action on day and night sight will await completion of successful development and demonstrated flight test. U-2R will accommodate DANS as now configured.

3. Following characteristics of the Optical Bar Panoramic Camera were presented and discussed:

Length - 55"  
 Height - 22"  
 Width - 25"  
 Weight - 270 lbs. (with film and mount)  
 Film - 5" x 6500' (3404 thin base)  
 Format - 4.5" x 50.25" 740 stereo pairs  
           2.5 x 40 nautical miles

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Excluded from automatic  
downgrading and  
declassification

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Operate Time	- Stereo 3.7 hours	1530 N.M.
Lateral Coverage	- 120° or 40 N.M.	
Resolution	- Better than 12" at nadir--24" at 60°	
Exposure Control	- Automatic 1/50 to 1/5000 sec.	
Cost	- Quantity of 6 including windows and AGE [redacted]	
Delivery	- 1 Feb., 1 March, 1 May and 1 per month thereafter	

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4. [redacted] pointed out that camera weight in Q-Bay location would probably require forward ballast and suggested that camera might be nose installed. This was noted for future consideration but no action now since hatches, windows and packages of various kinds are to be accommodated interchangeably in the Q-Bay for an undetermined transition time.

5. The characteristics outlined in par. 4 above describe the camera as delivered under a current USAF contract. The following changes are required to meet IDEALIST needs:

- A. Increase lateral coverage to 50 nautical miles.
- B. Extend camera operate time to 2000 nautical miles.
- C. Incorporate a suitable data block.

6. An informal proposal from Itek suggested delivery of the first three cameras in the as produced condition followed by three cameras incorporating A, B and C in par. 5, then rotating the first three cameras back through the factory to add the changes.

7. Materiel assisted by R&D and Operations will establish firm requirements for AGE, cameras and spares. R&D define methods of accomplishing changes stated in par. 5A, 5B and 5C above.

[redacted]  
Sensor Systems Division  
Special Activities

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